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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/560,546 | 12/12/2005 | Sandeep Khunteta | 56578-308223 | 2790 |

35657 7590 04/30/2008

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PATENT DOCKETING
2200 WELLS FARGO CENTER
90 SOUTH SEVENTH STREET
MINNEAPOLIS, MN 55402-3901

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| EXAMINER |
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LIANG, VEI CHUNG

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| ART UNIT | PAPER NUMBER |
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2169

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| MAIL DATE | DELIVERY MODE |
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04/30/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|--------------------------------------|--|--|
| Office Action Summary | Application No. 10/560,546 | Applicant(s) KHUNTETA ET AL. | |
| | Examiner VEI-CHUNG LIANG | Art Unit 2169 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 December 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>21 September 2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This is in response to application filed on December 12, 2005 in which claims 1 - 20 are presented for examination.

Status of Claims

Claims 1 - 20 are pending, of which **Claims 1, 10, and 19** are in independent form.

Priority

The application is submitted under 35 U.S.C. 371 and is a national stage entry (371) of the PCT application PCT/US05/28298, which is filed on August 09, 2005.

Information Disclosure Statement

1. The information disclosure statement filed September 21, 2007 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because: it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language.

It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the

statement, including all certification requirements for statements under 37 CFR 1.97(e).
See MPEP § 609.05(a).

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 253 (paragraph 0023), 574 (paragraph 0037). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 515 (Fig. 5A). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet

should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "519" (Fig. 5B) has been used to designate both a line linking data element 5 and Data E.2 and a line linking data element 1 and Data X.1, and reference character "474" (Fig. 4A and 4B) has been used to designate both Data X.1 in embodiment in Fig. 4A and 4B and Data X.1 in embodiment in Fig. 5A and 5B.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

1. The drawings are objected to because:

The features in **Fig. 4A and 4B** associated with reference number “**400**” and features in **Fig. 5A and 5B** associated with reference number “**500**” are unlabeled geometries. It is not enough for the reference number alone to indicate what the unlabeled geometries represent.

Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d).

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly labeled as “Annotated Sheets” and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application. In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly labeled as “Annotated Sheets” and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

Specification

5. The disclosure is objected to because of the following informalities:
 - (a) The specification recites “Figs. 4” (paragraph 0013, 0031) and “Figs. 5” (paragraph 0014, 0036); however, Figs. 4 and Figs. 5 are not included in the submitted disclosure.
 - (b) The specification recites “element F.2 452” (paragraph 0033), however, DATA F.2 is referenced by 466 in Fig. 4A and 4B. 452 is referencing DATA D.1. The

reference number should maintain consistency and refer to the same feature using the same label through out the entire disclosure.

(c) The specification recites “element F.1 452” (paragraph 0033), however, DATA 1.2 is referenced by 459 in Fig. 4A and 4B. 452 is referencing DATA D.1. The reference number should maintain consistency and refer to the same feature using the same label through out the entire disclosure.

(d) The specification recites “a line 415 between data element E.3 457 and data element X.3 478” (paragraph 0033), however, the line that links between data element E.3 and element X.3 in Fig. 4B is referenced by number 416. The reference number should maintain consistency and refer to the same feature using the same label through out the entire disclosure.

(e) The specification recites “a line 416 between data element F 458 and data element Y 480” (paragraph 0033), however, the line that links between data element F and element Y in Fig. 4B is referenced by number 415. The reference number should maintain consistency and refer to the same feature using the same label through out the entire disclosure.

(f) Reference number **510** has been recited to refer to a **graphical tool and a map graphic** (paragraph 0037, lines 10 – 11). A reference number should be

used to refer to a single article or procedure step. Reference number 510 should be used to refer to a single feature of the invention.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1- 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Falk et al. US PGPub 2005/0257193 A1 (hereinafter referred as Falk).

As per Claim 1, Falk teaches “a method for data exchange” as a method for data transformation (Falk, paragraph 0003, lines 1 - 5) and change data (Falk, paragraph 0051, lines 23 – 25).

Falk teaches “the method comprising: identifying a target data receptacle” as XML document being generated from the first structure data object (Falk, paragraph 0041, lines 12 – 14).

Falk teaches “identifying a first source data receptacle; identifying a second source data receptacle” as the first structured data object is XML document together with data from the relational database (Falk, paragraph 0041, lines 18 – 20).

Falk teaches “and providing a map” as a connector can be drawn by the user to represent a mapping between two sets of data (Falk, paragraph 0043, lines 17 – 21).

Falk teaches “wherein the map includes a relationship between a first source element of the first source data receptacle and a first target element of the target data receptacle” as a CustomerNr in ShortPO is mapped to Cusmter in CompletePO (Fig. 7).

Falk teaches “and wherein the map includes a relationship between a second source element of the second source data receptacle and a second element of the target data receptacle” as Single Price in CustermsAndArticles is mapped to SinglePrice in CompletePO (Fig. 7).

As per Claim 2, and also applied to Claim 1, Falk teaches “wherein the method further comprises: designing the target data receptacle” as the user define the columns within a selected table (paragraph 0052, lines 17 – 25).

Falk teaches “wherein designing the target data receptacle includes providing a name for the first target element and providing a name for the second target element” as name of the first target element “Customer” and name of second target element “SinglePrice” are provided in the target CompletePO (Fig. 7).

As per Claim 3, and also applied to Claim 2, Falk teaches “wherein designing the target data receptacle further includes providing a relationship between the first target element and the second target element” as two or more structured data objects are cascaded in a pipeline or connected in any other convenient manner (Falk, paragraph 0042, lines 6 - 9).

As per Claim 4, and also applied to Claim 1, Falk teaches “wherein the target data receptacle is an XML file” as XML document is generated from the first structured data object (Falk, paragraph 0041, lines 12 - 14).

Falk teaches “defined by an XML schema” as a target XML schema (Falk, paragraph 0045, line 14).

As per Claim 5, and also applied to Claim 1, Falk teaches “wherein the method further comprises: providing a graphical interface, wherein the graphical interface depicts a representation of the target receptacle, a representation of the first source receptacle, and a representation of the second source receptacle” as Fig. 7 illustrates the database-to-XML mapping that visually develops as the user draws connector lines between data elements (Falk, paragraph 0028), which includes shortPO as the first source, CustomersAndArticles as the second source, and the CompletePO as the target (Falk, Fig. 7).

As per Claim 6, and also applied to Claim 5, Falk teaches "wherein the method further comprises: receiving an instruction via the graphical interface to map the second source element of the second source data receptacle to the second element of the target data receptacle" as the Single Price is mapped to SinglePrice by the connector (Falk, Fig. 7).

As per Claim 7, and also applied to Claim 6, Falk teaches "wherein the instruction is a first instruction, and wherein the method further comprises: receiving a second instruction via the graphical interface to map the first source element of the first source data receptacle to the first element of the target data receptacle" as CustomerNr is mapped to Customer by connectors (Falk, Fig. 7).

As per Claim 8, and also applied to Claim 5, Falk teaches "wherein the map is formed based at least in part on the instruction" as creating mappings by dragging connecting lines from sources to the targets (Falk, paragraph 0053, lines 20 - 23).

As per Claim 9, and also applied to Claim 1, Falk teaches "applying the map, wherein information from the first source data receptacle is transferred to the target receptacle in accordance with the map, and wherein information from the second source data receptacle is transferred to the target receptacle in accordance with the map" as SQL can be run to execute the transformation and make the changes to the database (Falk, paragraph 0051, lines 23 - 25).

As per Claim 10, Claim 10, is directed to a system performing the method disclosed in Claim 1. The limitations are substantially the same as Claim 1; therefore, the rejection of Claim 1 also applies to Claim 10.

As per Claim 11, Claim 11, is directed to a system performing the method disclosed in Claim 4. The limitations are substantially the same as Claim 4; therefore, the rejection of Claim 4 also applies to Claim 11.

As per Claim 12, Claim 12, is directed to a system performing the method disclosed in Claim 5. The limitations are substantially the same as Claim 5; therefore, the rejection of Claim 5 also applies to Claim 12.

As per Claim 13, Claim 13, is directed to a system performing the method disclosed in Claim 6. The limitations are substantially the same as Claim 6; therefore, the rejection of Claim 6 also applies to Claim 13.

As per Claim 14, Claim 14, is directed to a system performing the method disclosed in Claim 7. The limitations are substantially the same as Claim 7; therefore, the rejection of Claim 7 also applies to Claim 14.

As per Claim 15, Claim 15, is directed to a system performing the method disclosed in Claim 8. The limitations are substantially the same as Claim 8; therefore, the rejection of Claim 8 also applies to Claim 15.

As per Claim 16, Claim 16, is directed to a system performing the method disclosed in Claim 2. The limitations are substantially the same as Claim 2; therefore, the rejection of Claim 2 also applies to Claim 16.

As per Claim 17, Claim 17, is directed to a system performing the method disclosed in Claim 3. The limitations are substantially the same as Claim 3; therefore, the rejection of Claim 3 also applies to Claim 17.

As per Claim 18, Claim 18, is directed to a system performing the method disclosed in Claim 9. The limitations are substantially the same as Claim 9; therefore, the rejection of Claim 9 also applies to Claim 18.

As per Claim 19, Falk teaches "a method for data exchange" as a method for data transformation (Falk, paragraph 0003, lines 1 - 5) and change data (Falk, paragraph 0051, lines 23 – 25).

Falk teaches "the method comprising: identifying a target data receptacle" as XML document being generated from the first structure data object (Falk, paragraph 0041, lines 12 – 14).

Falk teaches “identifying a first and a second source data receptacle;” as the first structured data object is XML document together with data from the relational database (Falk, paragraph 0041, lines 18 – 20).

Falk teaches “and providing a map” as a connector can be drawn by the user to represent a mapping between two sets of data (Falk, paragraph 0043, lines 17 – 21).

Falk teaches “wherein the map includes a relationship between a first source element of the first source data receptacle and a first target element of the target data receptacle” as a CustomerNr in ShortPO is mapped to Cusmter in CompletePO (Fig. 7).

Falk teaches “and wherein the map includes a relationship between a second source element of the second source data receptacle and a second element of the target data receptacle” as Single Price in CustermsAndArticles is mapped to SinglePrice in CompletePO (Fig. 7).

Falk teaches “providing a graphical interface, wherein the graphical interface depicts a representation of the target receptacle, a representation of the first source receptacle, and a representation of the second source receptacle” as Fig. 7 illustrates the database-to-XML mapping that visually develops as the user draws connector lines between data elements (Falk, paragraph 0028), which includes shortPO as the first source, CustomersAndArticles as the second source, and the CompletePO as the target (Falk, Fig. 7).

As per Claim 20, and also applied to Claim 19, Falk teaches “receiving a first instruction via the graphical interface to map the second source element of the second

source data receptacle to the second element of the target data receptacle” as the Single Price is mapped to SinglePrice by the connector (Falk, Fig. 7).

Falk teaches “and receiving a second instruction via the graphical interface to map the first source element of the first source data receptacle to the first element of the target data receptacle” as CustomerNr is mapped to Customer by connectors (Falk, Fig. 7).

Conclusion

1. The prior art made of record:
 - a. Falk et al. US PGPub 2005/0257193 A1
2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - b. MacLeod et al. US 6,356,901 B1 discloses a system for import, transform, and export data which is relevant material.
 - c. Vedula et al. US 6,823,495 B1 discloses a system for mapping tool graphical user interface which is relevant material.
 - d. Lau et al. US PGPub 2002/0184213 A1 discloses a system for transforming source to target which is relevant material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VEI-CHUNG LIANG whose telephone number is (571)270-1984. The examiner can normally be reached on Mon.-Thursday, 7:30AM - 6:00PM.

Art Unit: 2169

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pierre M. Vital can be reached on (571) 272-4215. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

April 23, 2008

/klu/

/V. L./

Vei-Chung Liang, Ph.D.
Examiner, Art Unit 2169

/Pierre M. Vital/

Supervisory Patent Examiner, Art Unit 2169